

## **APPENDIX C**

### **Pathogens and Vector Attraction Reduction Certification Statements**

# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

January 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For the City of Los Angeles  
Hyperion Treatment Plant

By:  \_\_\_\_\_

Date: 2.4.99

Joseph E. Mundine, Plant Manager

# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

February 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

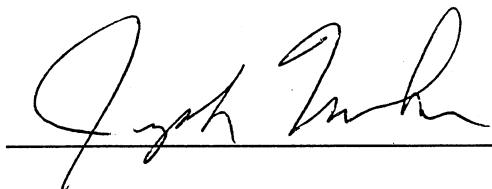
Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For the City of Los Angeles  
Hyperion Treatment Plant

By: \_\_\_\_\_



Joseph E. Mundine , Plant Manager

Date: \_\_\_\_\_

3-2-99

# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

March 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

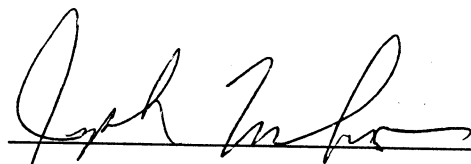
Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

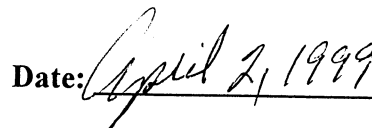
For the City of Los Angeles  
Hyperion Treatment Plant

By: \_\_\_\_\_



Joseph E. Mundine , Plant Manager

Date: \_\_\_\_\_



# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

April 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

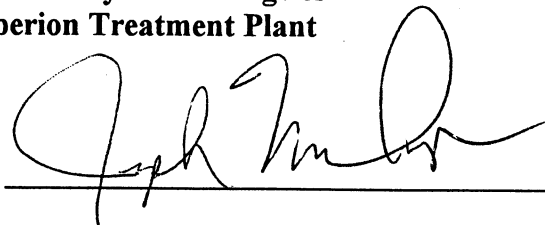
Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For the City of Los Angeles  
Hyperion Treatment Plant

By: \_\_\_\_\_



Joseph E. Mundine, Plant Manager

Date: \_\_\_\_\_

5/10/99

# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

May 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

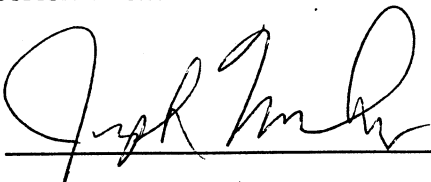
Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

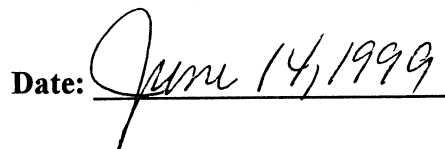
For the City of Los Angeles  
Hyperion Treatment Plant

By: \_\_\_\_\_



Joseph E. Mundine , Plant Manager

Date: \_\_\_\_\_



# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

June 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

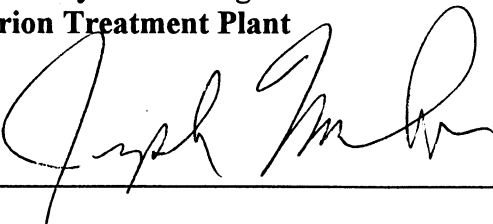
Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For the City of Los Angeles  
Hyperion Treatment Plant

By: \_\_\_\_\_



Joseph E. Mundine , Plant Manager

Date: \_\_\_\_\_

7/9/99

# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

July 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

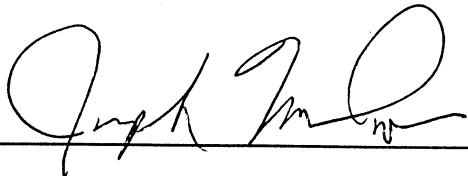
**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For the City of Los Angeles  
Hyperion Treatment Plant

By: 

Joseph E. Mundine , Plant Manager

Date: 



# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

August 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

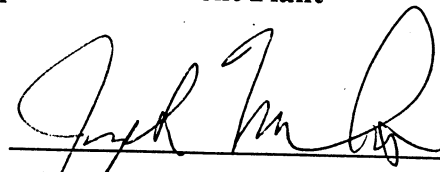
Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For the City of Los Angeles  
Hyperion Treatment Plant

By: \_\_\_\_\_



Joseph E. Mundine , Plant Manager

Date: \_\_\_\_\_

September 6, 1999

# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

September 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).


**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For the City of Los Angeles  
Hyperion Treatment Plant

By: 

Joseph E. Mundine , Plant Manager

Date: Oct 12, 1999

**City of Los Angeles  
HYPERION TREATMENT PLANT**

**Biosolids Certification Statement  
Meeting Pathogens and Vector Attraction Reduction Requirements**

**October 1999**

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** – A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

**503.17 (a)(4)(i)(D)** – A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38%.

**503.17 (a)(4)(i)(B)** – Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For the City of Los Angeles  
Hyperion Treatment Plant

By: \_\_\_\_\_

Joseph E. Mundine, Plant Manager

Date: \_\_\_\_\_

November 3, 1999

# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

November 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(c)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For the City of Los Angeles  
Hyperion Treatment Plant

By: 

Joseph E. Mundine , Plant Manager

Date: Dec 10, 1999

# City of Los Angeles Hyperion Treatment Plant

## Biosolids Certification Statement For Meeting Pathogens and Vector Attraction Reduction Requirements

December 1999

The following pathogens and vector attraction reduction requirements has been prepared in accordance with the USEPA 40CFR Part 503 Sewage Sludge Regulations.

**503.17 (a)(4)(i)(C)** - A description of how the Class B pathogens requirement in 503.32 (b)(2) is met.

- i. Seven samples of the sewage sludge are collected at the time of the sewage sludge is used.
- ii. The geometric mean of the density of fecal coliform is less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis).

**503.17 (a)(4)(i)(D)** - A description of how the vector attraction reduction requirement in 503.33 (b)(1) is met.

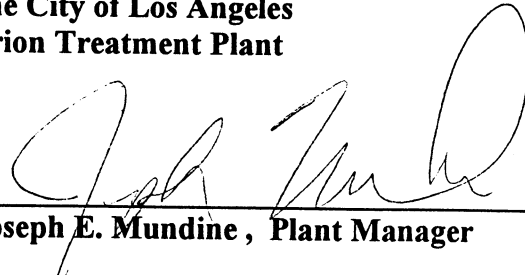
Sludge undergoes anaerobic, high rate, mesophilic digestion. The mass of volatile solids in the sewage sludge are reduced by a minimum of 38 percent.

**503.17 (a)(4)(i)(B)** - Certification statement for meeting pathogens and vector attraction reduction requirements.

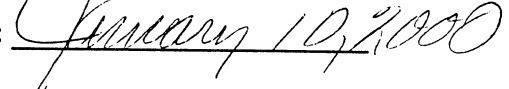
I certify under, penalty of law, that the class B pathogens requirements in 503.32 (b)(2) and the vector attraction reduction requirements in 503.33 (b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogens and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

For the City of Los Angeles  
Hyperion Treatment Plant

By:

  
Joseph E. Mundine, Plant Manager

Date:

  
January 19, 2000